

HYDRODUCT® 660

High impact, creep-resistant geocomposite and protection layer for use with Grace waterproofing membranes on all horizontal applications

Description

Hydroduct® 660 is a highly robust, preformed, 0.433 in. (11 mm) thick geocomposite drainage sheet system, comprising a high impact, studded polystyrene core. This is covered on one side with a nonwoven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric film. This film allows the Hydroduct 660 to be placed against waterproofing membrane and should not be removed.

Advantages

- **Universal horizontal application**—suitable for all overburdens including concrete
- **Damage and creep-resistant**—high compressive strength core resists traffic loads and site damage to maintain drainage flow
- **High flow capacity**—drains 16 gal/min./ft (200 L/min./m) width
- **Enhances waterproofing**—eliminates hydrostatic head build up
- **Securely bonded fabric**—restricts intrusion into core

- **Polymeric backing film**—compatible with both sheet and liquid waterproofing membranes
- **Lightweight**—easy to install without special equipment
- **Simple, convenient, drainage and protection layer**—robust membrane protection

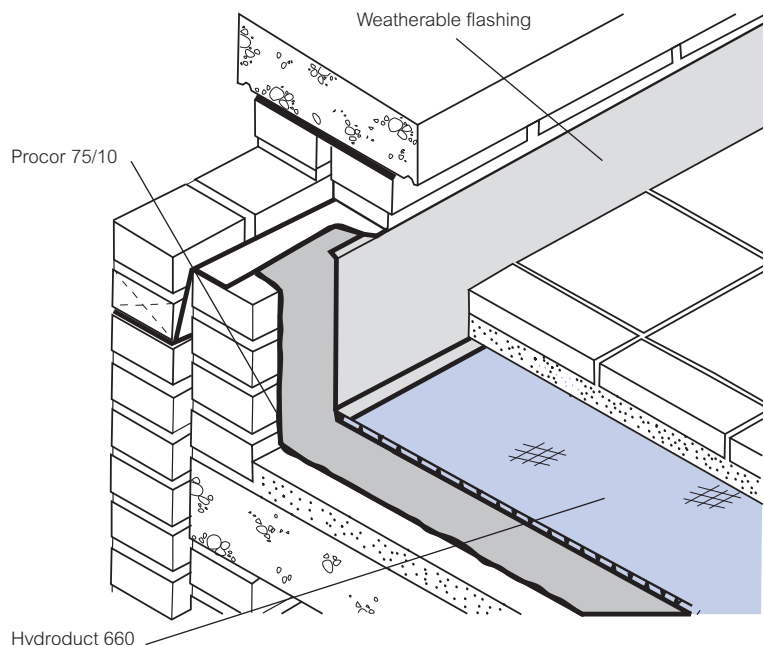
Use

Hydroduct 660 Drainage Composite is designed to collect and transport water to drainage outlets. It can be used on all horizontal applications regardless of the type of overburden and serves as a combination drainage and protection course for all Grace waterproofing membranes.

The high strength, nonwoven geotextile is designed to maintain permeability while protecting the drainage composite from job site damage prior to, and during, the installation of the overburden. The high permeability of the nonwoven geotextile facilitates the removal of water from a concrete

Product Advantages

- Universal horizontal application
- Damage and creep-resistant
- High flow capacity
- Enhances waterproofing
- Securely bonded fabric
- Polymeric backing film
- Lightweight
- Simple, convenient, drainage and protection layer



Drawings are for illustration purposes only. Please refer to www.graceconstruction.com for specific application details.

Supply

Hydroduct 660		
Roll size	4 ft x 50 ft (1.2 m x 15.2 m) 200 ft ² (18.6 m ²)	
Packaging	6 rolls/pallet	
Weight	50 lbs (21 kg)/roll	
Complementary Materials		
Hydroduct Tape	1 in. x 200 ft (25 mm x 61.0 m) roll/6 rolls per carton	
Hydroduct Coil 600	50 ft (15.2 m) roll	

Physical Properties

Property	Typical Value	Test Method
Drainage Core		
Polymer	High impact polystyrene	
Thickness	0.433 in. (11 mm) nominal	ASTM C366 method B
Compressive strength	21,000 lbs/ft ² (1000 kPa)	ASTM D1621
Flow rate (gradient 1.0, load 172 kPa)	16 gal/min./ft (200 L/min./m)	ASTM D4716
Geotextile		
Type	Nonwoven	
Polymer	Polypropylene	
Weight	8.0 oz/yd ² (270 g/m ²)	ASTM D3776
Tensile strength	225 lbs (1000 N)	ASTM D4632
Apparent opening size	100 U.S. sieve (0.147 mm)	ASTM D4751
Flow rate	80 gal/min./ft ² (3250 L/min./m ²)	ASTM D4491
Mullen burst	695 lbs/in. ² (4790 kPa)	ASTM D3786
Puncture strength	162 lbs (720 N)	ASTM D4833

pour, thus enhancing the concrete cure, as well as providing drainage after installation. The geotextile is securely bonded to the core to prevent intrusion of the fabric into the core during service. The high modulus backing film ensures compatibility when used with either Procor® fluid applied waterproofing membranes, or with Bituthene® waterproofing membranes.

Application Procedures

Safety, Storage and Handling Information

All construction products must be handled properly. Material Safety Data Sheets (MSDS) are available at www.graceconstruction.com and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the MSDS before use.

Installation

Hydroduct 660 can be placed over waterproofing membranes, concrete or wood providing job site conditions allow the composite to remain as placed. Additional ballast consideration should be given in high wind exposures. Abut all edges tightly with the excess geotextile placed over the adjacent roll in shingle fashion.

To secure Hydroduct 660 around protrusions, apply Hydroduct Tape around the protrusion in a picture frame configuration. Cut Hydroduct 660 to fit snugly around the protrusion. Press Hydroduct 660 core firmly into the Hydroduct Tape.

Hydroduct 660 should be covered promptly. Do not leave Hydroduct 660 exposed to sunlight for more than two weeks. Motor vehicles, construction equipment or other trades should not be allowed directly on the Hydroduct 660.

www.graceconstruction.com

For technical assistance call toll free at 866-333-3SBM (3726)

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